0028



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

01/2

Michael O. Leavitt Governor Robert L. Morgan Executive Director Lowell P. Braxton Division Director 1594 West North Temple, Suite 1210 PO Box 145801 Salt Lake City, Utah 84114-5801 (801) 538-5340 telephone (801) 359-3940 fax (801) 538-7223 TTY www.nr.utah.gov

August 29, 2002

TO:

Internal File

THRU:

Daron R. Haddock, Permit Supervisor

FROM:(

Priscilla W. Burton, Sr. Reclamation Specialist/Soils Dana Dean, P.E., Reclamation Specialist II/Hydrology

RE:

Technical Field Visit to the #1 Mine Site, Plateau Mining Corporation, Star Point

Mine, C/007/006

Other Attendees:

Johnny Pappas, Plateau Mining Company; Lane Jensen, EarthFax

Date & Time:

August 15, 2002, 11:00 AM to 1:30 PM

PURPOSE:

The purpose of the field visit was to observe installation of Pyramat in the drainages and to sample the graded surface soils of the Lion's Deck.

OBSERVATIONS:

The Lion's deck has been backfilled with approximately 100,000 cubic yards of mine waste from the main drainage. The mine waste was covered with four feet of clean fill from the outslopes of the Lion's Deck, approximately 50,000 cubic yards of fill was utilized. Nine samples were taken from the site. Sample locations are identified on the attached photos #P0003737 and P0003714. The characteristics of the surface soils are outlined in the table below.



TECHNICAL MEMO

SAMPLE NUMBER

	1	2	3	4	5	6	7	8	9
Color	gray	white	red	brown	Red	Grey/brown	Grey/black	Grey/brown	Grey/black
					dry5YR5/2	dry10YR5/2	dry10YR4/1	dry10YR5/2	dry10YR4/1
					wet5YR3/4	wet10YR3/2	wet10YR3/1	wet10YR3/3	wet7YR2/0
%gravels	50	50	50	30	50	50	50	50	40
retained									
10 mesh									
PH	7.9	7.9	8.0	7.8	7.8	7.9	7.3	8.0	7.7
EC	1.3	0.4	0.1	0.7	0.7	0.5	1.8	1.0	1.1
mmhos/cm		!							

Pyramat, a woven plastic mat, was being installed in a drainage with a grade varying from 33-50%. Other drainages with grades up to 100% will also have Pyramat installed. The Pyramat was laid in the drainage, anchored to the soil with steel pins, and secured on the edges with soil. According to the manufacturer's installation instructions, the exposed surface of the Pyramat has approximately one inch of soil covering. This will allow vegetation to germinate and send roots down through the Pyramat. A registered P.E. was on-site to ensure that the drainages were constructed properly and that the Pyramat was installed according to plan.

Work had started on the lowest, main drainage. The drainage is 3400 feet long with an elevation drop of 250 feet from top to bottom. Several smaller drainages will connect directly into the main drainage. The drainage that flows down from an old catch-pond was being constructed. Concrete from the coal stacking tube and reclaim tunnel installations will be buried in the main drainage. Some pieces were already buried in the slopes where soil was being placed, and rebar was sticking up from under the soil. If this is still a problem once the full depth of soil is placed, the rebar will be cut and the soil repositioned.

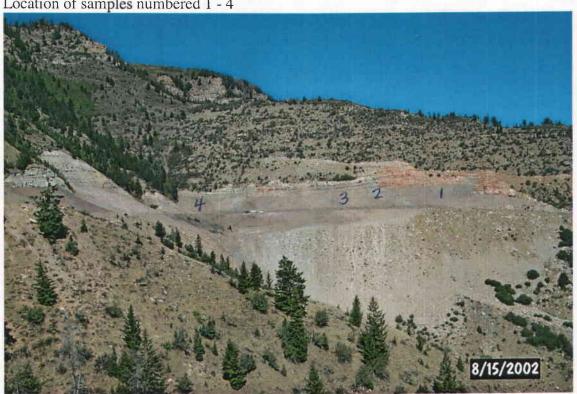
RECOMMENDATIONS/CONCLUSIONS:

The pH and Electrical Conductivity of the surface soils are suitable for plant growth. Mulching, gouging and seeding operations should occur according to plan, after September 15.

Construction of the drainages is proceeding as planned and should continue to do so. Photos from this field visit may be viewed on the Internet at: ftp://dogm.nr.state.ut.us/PUB/MINES/Coal/C007/006/IMAGES/08152002/

Attachment to Starpoint Mine field visit report 8/16/2002 FV_08162002A.doc

Location of samples numbered 1 - 4



Location of samples numbered 5 - 9

